

# ABSTRACT

The propylene polymer of the invention is transparent and has good low-temperature heat-sealability and scratch resistance, and is favorable to wrapping and packaging films.

(1) The polymer has a melting point,  $T_m$  ( $^{\circ}\text{C}$ ), measured through differential scanning calorimetry, of  $110 \leq T_m \leq 140$ ; (2) its heat of fusion  $\Delta H$  (J/g) and melting point  $T_m$  ( $^{\circ}\text{C}$ ) satisfy  $\Delta H \geq 0.45 \times T_m + 22$ ; (3) the half-value width  $T_h$  ( $^{\circ}\text{C}$ ) of the peak top of its elution curve obtained in programmed-temperature fractionation is  $T_h \leq 5$ ; and (4) its intrinsic viscosity  $[\eta]$  (dl/g) measured in a solvent of tetralin at  $135^{\circ}\text{C}$  falls between 0.5 and 5.